

Evaluation of corrosion resistance of reinforcing steel in sulfur concrete

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Abstract: Twelve mixes from sulfur concrete and three from Portland cement concrete were studied for reinforcement corrosion. The reinforced specimens were partially immersed in 5% sodium chloride solution for a period of two years. Test results indicate that reinforcing steel in sulfur concrete takes longer time to reach corroding state when compared to that in Portland cement concrete. But, once the corrosion of the reinforcing steel in sulfur concrete initiates, the corrosion rate is higher than that of the reinforcing steel in a good quality Portland cement concrete.